



Electromagnetic Fluctuations In Plasma

A Sitenko

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Electromagnetic Fluctuations in Plasma focuses on the theoretical investigation of the electromagnetic properties of a plasma (an ionized gas).

The manuscript first takes a look at the general theory of fluctuations and electromagnetic fluctuations in media with space-time dispersion. Discussions focus on spectral distribution of the fluctuations and energy dissipation in the medium; dielectric and magnetic permittivities in a medium with spatial dispersion; current, charge, and field fluctuations in a medium; and inversion of the fluctuation-dissipation theorem. The text then examines the electrodynamic properties of an electron plasma and electromagnetic fluctuations in an electron plasma.

The publication ponders on fluctuations in an electron-ion plasma and electron plasma in a magnetic field. Topics include plasma dielectric permittivity tensor in a magnetic field; longitudinal plasma oscillations in a magnetic field; fluctuations in charge and current densities in an equilibrium electron-ion plasma; and electron and ion density fluctuations in an equilibrium plasma. The text also tackles the passage of charged particles through plasma and dynamic friction and diffusion coefficients in a plasma.

The book is a dependable reference for readers interested in the study of the electromagnetic properties of a plasma.

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